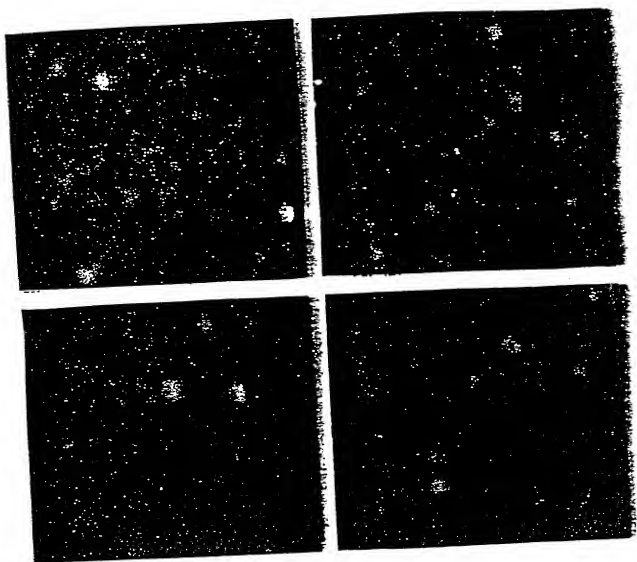


Figure 1

1-4-



00027150-504844

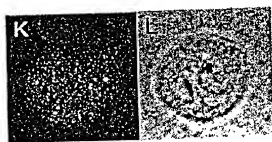
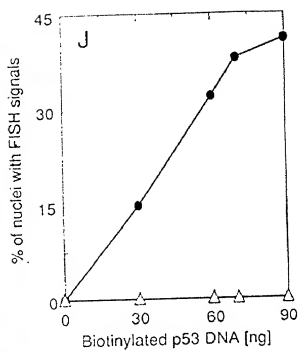
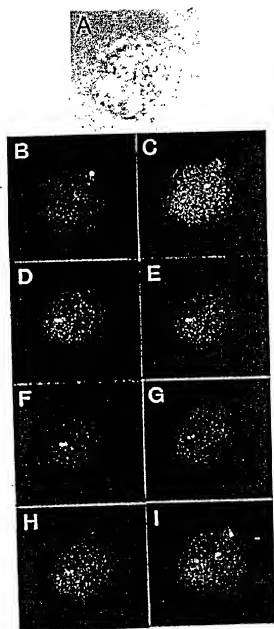


Figure 2

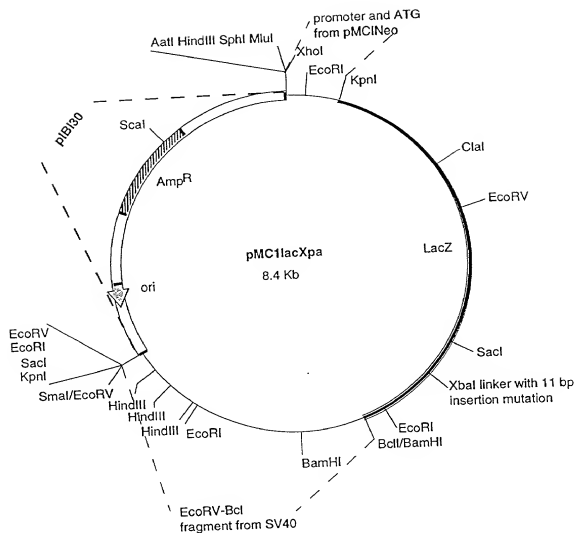


FIGURE 3

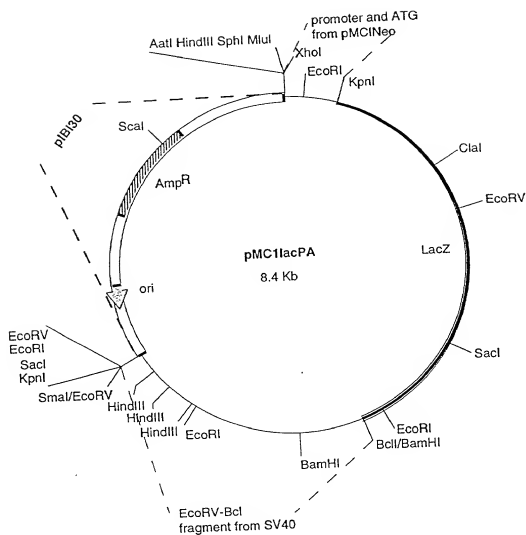
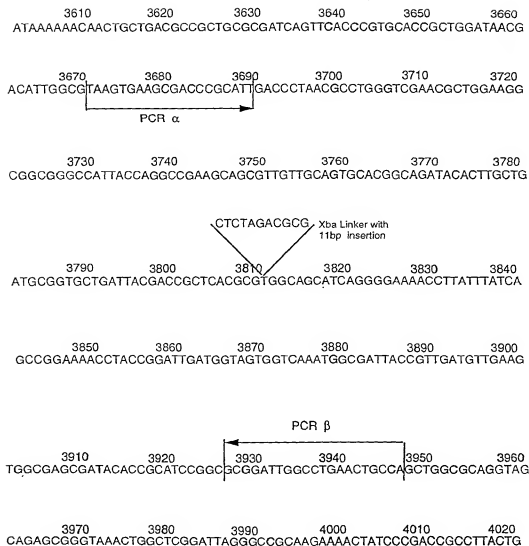


FIGURE 4

Figure 5



TEST FOR ALTERATION OF AN INSERTION MUTATION IN THE *lacZ*
(β -GALACTOSIDASE) GENE OF EUKARYOTIC EXPRESSION VECTOR

Experimental Sample	Injected Plasmid, 276-mer DNA and RecA Protein	Number of Injected Surviving Cells	Number of Surviving Cells Scoring Blue	Surviving Cells Scoring Blue (%)
1	pSV- β -gal -276-mer - RecA	168	21	12.5
2	pMC1lacpa - 276-mer - RecA	98	9	9.2
3	pMC1lacXpa - 276-mer - RecA	173	0	0
4	pMC1lacXpa + 276-mer - RecA	103	0	0
5	pMC1lacXpa + 276-mer + RecA	168	6	3.6

Figure 6

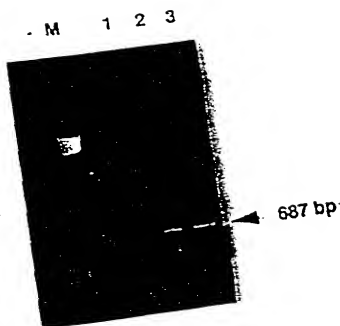


Figure 7A

Control (Σ CF)
 Σ CF Microinjected
 Σ CF P-L

Figure 7B



1 2 3 4 5 6

300



Figure
8A

1 2 3 4 5



Figure
8B

1 2 3

299 

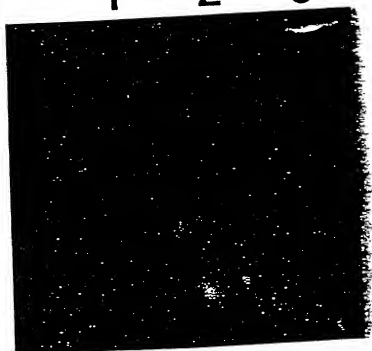


Figure
9

Scheme for recombination assay

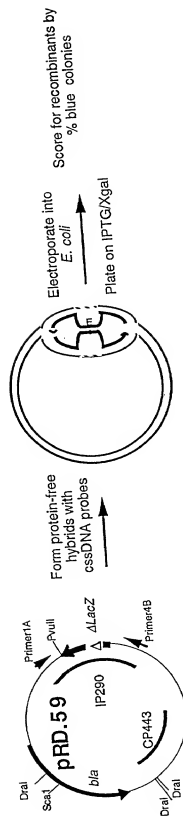


Figure 10

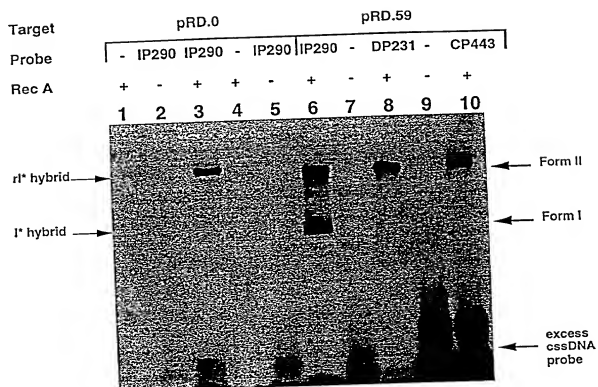


FIGURE 11

cssDNA Probe:Target Hybrids Enhance Homologous Recombination

Target Probe	RecA coating	Host	%Recombinant / total colonies
pRD.59	-	RecA+	0
	+	RecA -	0
pRD.59 IP290	-	RecA+	0
IP290	-	RecA -	0
pRD.59 IP290	+	RecA+	3
IP290	+	RecA -	0
pRD.59 DP290	-	RecA+	0
DP290	-	RecA -	0
pRD.59 DP290	+	RecA+	0
DP290	+	RecA -	0
pRD.59 CP443	-	RecA+	0
CP443	-	RecA -	0
pRD.59 CP443	+	RecA+	0
CP443	+	RecA -	0

Figure 12

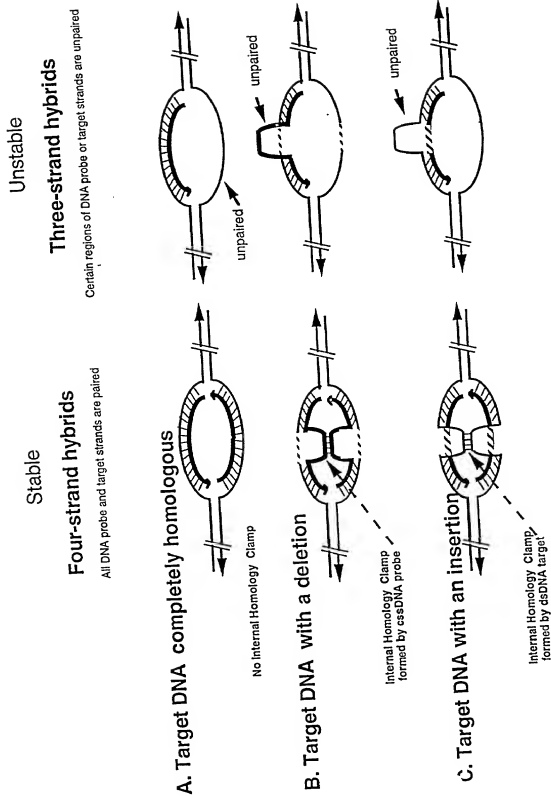


Figure 13

Figure 14A

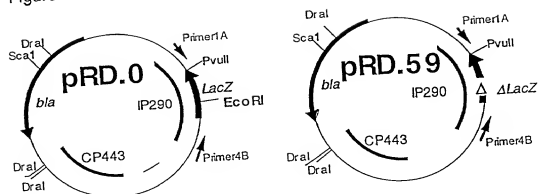
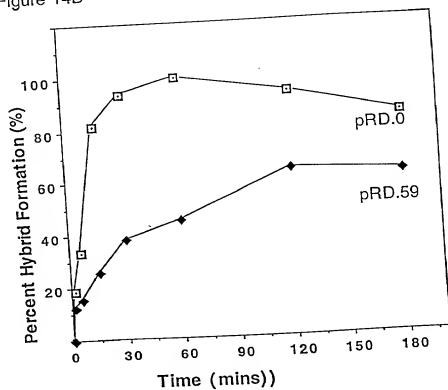


Figure 14B



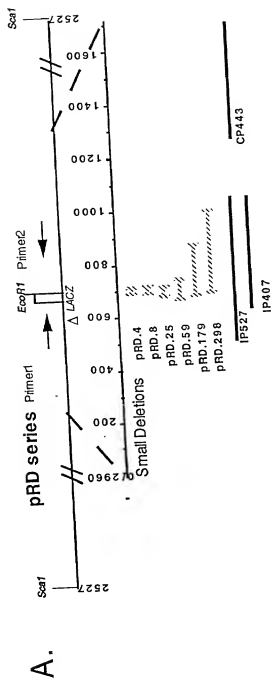


Figure 15A

Figure 15B

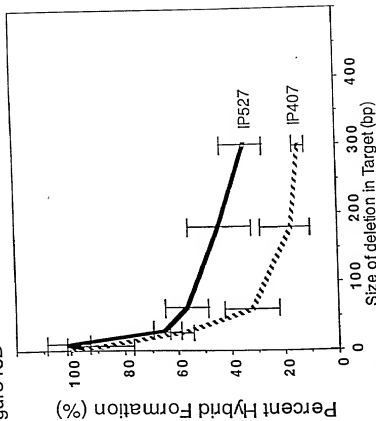


Figure 15D

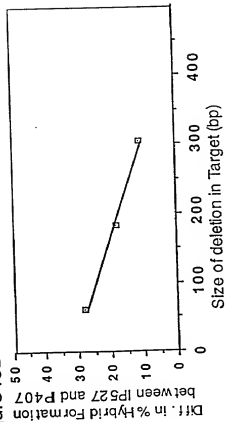
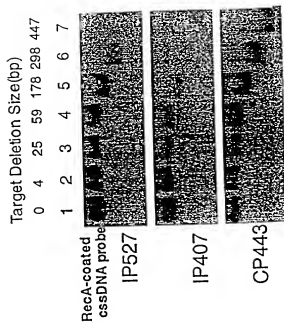


Figure 15C



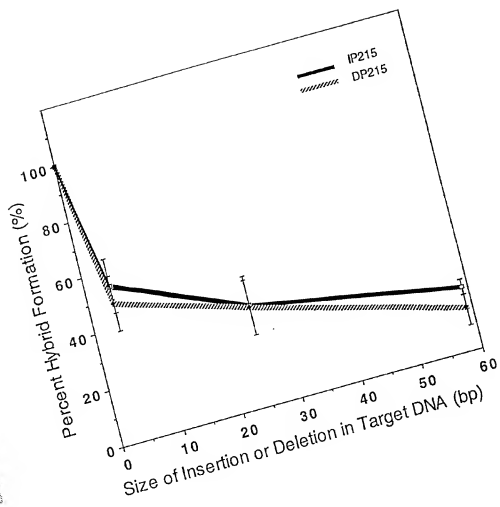


Figure 16

Figure 17A

Probe	P1246	CP443
	PRD.967	PRD.967
	PRD.559	PRD.559
	PRD.453	PRD.453
	PRD.448	PRD.448
	PRD.0	PRD.0

Target

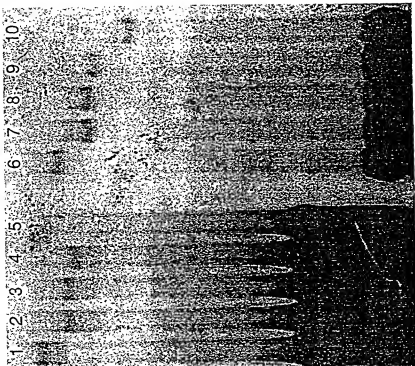
FormIII Marker

pRD.0

pRD.448/453

pRD.559

pRD.967



Excess probe

Excess probe

Figure 17B

TARGET DNA	AMT. HOMOL. (bp)	RELATIVE HYBRIDIZATION
pRD.0	1246	1.0
pRD.448	798	0.8
pRD.453	793	0.8
pRD.559	687	0.8
pRD.967	279	0.3

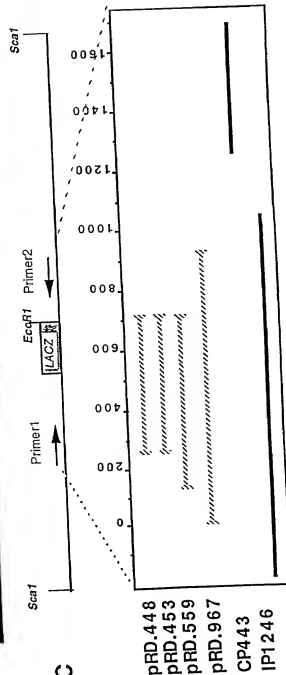


Figure 17C

Figure 18

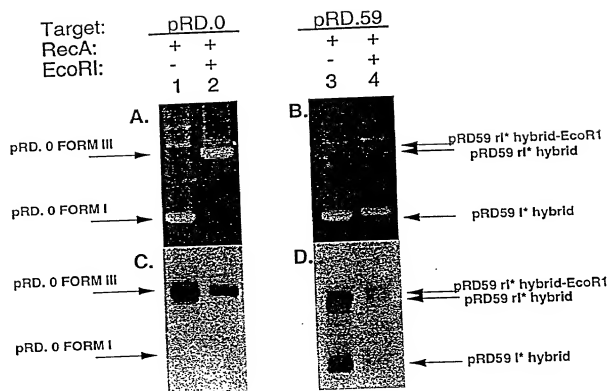
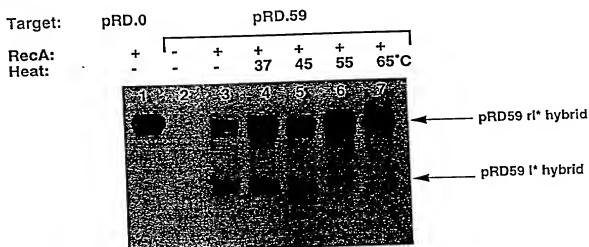


Figure 19



OTC exon4 DNA sequence determination

Figure 21

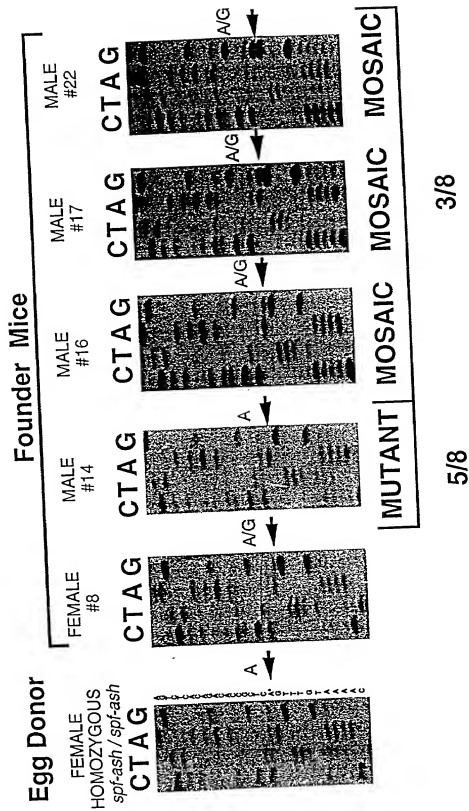


Figure 22 Germline Transmission of EHR Corrected OTC⁺ Allele

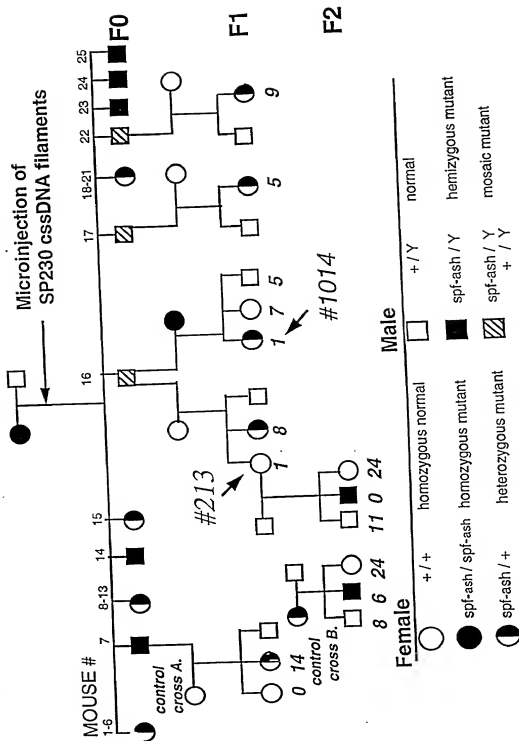


Figure 23 Germline Transmission of Corrected Allele of F0 Male #16

